

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims

1. (Previously Presented) A method of manufacturing an optical film comprising:
 - forming a metal layer on a first substrate;
 - subjecting the metal layer to at least one of a thermal oxidization treatment, an oxygen plasma treatment, and a treatment with oxidizing solution to form a metal oxide layer on the metal layer;
 - forming an insulating layer on the metal oxide layer;
 - forming a subject body having an optical filter on the insulating layer;
 - attaching a second substrate to the subject body by using a first adhesive material so that the second substrate faces the first substrate;
 - attaching a support medium to the second substrate by using a peelable adhesive agent;
 - separating the first substrate and the separation layer from the subject body in a region between the metal layer and the insulating layer; and
 - separating the support medium and the peelable adhesive agent from the second substrate.
2. (Previously Presented) A method of manufacturing an optical film comprising:
 - forming a metal layer on a first substrate;
 - subjecting the metal layer to at least one of a thermal oxidization treatment, an oxygen plasma treatment, and a treatment with oxidizing solution to form a metal oxide layer on the metal layer;
 - forming an insulating layer on the metal oxide layer;

forming a subject body having an optical filter on the insulating layer, the optical filter comprising a black matrix and a colored layer;

attaching a support medium to the subject body by using a peelable adhesive agent so that the support medium faces the first substrate;

separating the first substrate and the separation layer from the subject body in a region between the metal layer and the insulating layer;

forming a second substrate on the subject body using an adhesive material; and

separating the support medium and the peelable adhesive agent from the subject body.

3. (Previously Presented) A method of manufacturing an optical film according to claim 1, wherein the metal layer is formed of an element selected from titanium, aluminum, tantalum, tungsten, molybdenum, copper, chromium, neodymium, iron, nickel, cobalt, ruthenium, rhodium, palladium, osmium, iridium; or a single layer made from an alloy material or a compound material having the elements as its main constituent; or a lamination layer thereof.

4. (Previously Presented) A method of manufacturing an optical film according to claim 2, wherein the metal layer is formed of an element selected from titanium, aluminum, tantalum, tungsten, molybdenum, copper, chromium, neodymium, iron, nickel, cobalt, ruthenium, rhodium, palladium, osmium, iridium; or a single layer made from an alloy material or a compound material having the elements as its main constituent; or a lamination layer thereof.

5-6. (Cancelled)

7. (Previously Presented) A method of manufacturing an optical film comprising:

forming a metal layer on a first substrate;

subjecting the metal layer to at least one of a thermal oxidization treatment, an oxygen plasma treatment, and a treatment with oxidizing solution to form a metal oxide layer on the metal layer;

forming an insulating layer on the metal oxide layer;

forming an optical filter on the insulating layer;

attaching a second substrate to the optical filter by using a first adhesive material;

attaching a support medium to the second substrate by using a peelable adhesive agent;

separating the first substrate from the optical filter in a region between the metal layer and the insulating layer; and

separating the support medium and the peelable adhesive agent from the second substrate.

8. (Previously Presented) A method of manufacturing an optical film comprising:

forming a metal layer on a first substrate;

subjecting the metal layer to at least one of a thermal oxidization treatment, an oxygen plasma treatment, and a treatment with oxidizing solution to form a metal oxide layer on the metal layer;

forming an insulating layer on the metal oxide layer;

forming an optical filter on the insulating layer, the optical filter comprising a black matrix and a colored layer;

forming a peelable adhesive agent on the optical filter;

forming a support medium on the optical filter;

separating the first substrate from the optical filter in a region between the metal layer and the insulating layer;

forming a second substrate on the insulating layer by using an adhesive material; and

separating the support medium and the peelable adhesive agent from the optical filter.

9. (Previously Presented) A method of manufacturing an optical film comprising:

forming a metal layer on a first substrate;

subjecting the metal layer to at least one of a thermal oxidization treatment, an oxygen plasma treatment, and a treatment with oxidizing solution to form a metal oxide layer on the metal layer;

forming an insulating layer on the metal oxide layer;

forming an optical filter on the insulating layer, the optical filter comprising a black matrix and a colored layer;

forming a peelable adhesive agent on the optical filter;

forming a support medium on the optical filter;

separating the first substrate from the optical filter in a region between the metal layer and the insulating layer;

forming a second substrate over the insulating layer by using an adhesive material; and

separating the support medium and the peelable adhesive agent from the optical filter.

10. (Previously Presented) A method of manufacturing an optical film according to claim 7, wherein separation between the metal layer and the insulating layer is caused by a physical means.

11-16. (Cancelled)

17. (Previously Presented) A method of manufacturing an optical film according to claim 7, wherein the insulating layer is formed after forming the metal oxide layer by oxidizing a surface of the metal layer.

18. (Cancelled)

19. (Previously Presented) A method of manufacturing an optical film according to claim 7, wherein the metal layer is formed of an element selected from titanium, aluminum, tantalum, tungsten, molybdenum, copper, chromium, neodymium, iron, nickel, cobalt, ruthenium, rhodium, palladium, osmium, iridium; or a single layer made from an alloy material or a compound material having the elements as its main constituent; or a lamination layer thereof.

20. (Previously Presented) A method of manufacturing an optical film according to claim 7, wherein the insulating layer comprises silicon oxide, silicon oxynitride, or metal oxide.

21. (Previously Presented) A method of manufacturing an optical film according to claim 1, wherein the optical filter is a color filter or a color conversion filter.

22. (Previously Presented) A method of manufacturing an optical film according to claim 1, wherein the second substrate is plastic.

23. (Previously Presented) A method of manufacturing an optical film according to claim 1, wherein the optical film comprises a plurality of optical functions.

24. (Previously Presented) A method of manufacturing an optical film according to claim 23, wherein the second substrate is a polarizing plate, an elliptical polarizing plate composed of a retardation plate and a polarizing plate, a reflection film, or a light diffusing plate.

25. (Previously Presented) A method of manufacturing an optical film according to claim 2, wherein the support medium is a glass substrate, a quartz substrate, a metal substrate, or a ceramic substrate.

26. (Previously Presented) A method of manufacturing an optical film according to claim 2, wherein the peelable adhesive agent is a reactive peeling adhesive, a thermal peeling adhesive, a light peeling adhesive, or an anaerobic peeling adhesive; or a material having adhesive layers formed of one or more of these on both sides thereof.

27. (New) A method of manufacturing an optical film according to claim 21, wherein the color filter is formed by an etching method using a photosensitive resin.